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## PATENT ABSTRACTS OF JAPAN

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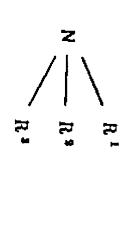
## (54) FORMATION OF AMORPHOUS SILICON FILM

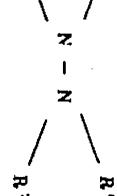
(57) Abstract:

PURPOSE: To increase the growing speed of an amorphous silicon (a-Si) film without deteriorating the characteristics of the film in the manufacture of an a- Si film by a chemical vapor deposition (CVD) method by adding a specified amount of ammonia (deriv.) to a gaseous starting material.

amount of silicon in the gaseous deposit an a-Si film on the substrate. decomposed at about 250W600°C to represented by formula III (where n is substrate is placed in a decomposition each of R1WR7 is H, alkyl or aryl. A hydrazine (deriv.) represented by represented by formula I and/or hydrazine (deriv.), and Si is the the ammonia (deriv.) and/or relation represented by formula IV and/or hydrazine (deriv.) is added to At this time, said ammonia (deriv.) nitrogen, and the silane is thermally together with an inert gas such as furnace, silane of higher order formula II is used. In the formulae CONSTITUTION: Ammonia (deriv.) the silane by an amount satisfying [where N is the amount of nitrogen in introduced into the furnace optionally 2) such as disilane or trisilane is

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